

**WSCF**  
**ANALYTICAL LABORATORY REPORT**  
**ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT**  
for

Bechtel Hanford Inc  
Richland , WA 99352

Attention: D Ayres/S Trent MSIN: H9-03

Survey ID B99-004-073

Data Validator

*MK Hamilton*  
(Approved Signatory)

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Group#: 99001181  
Report Date 3-aug-1999  
bulk/rev.2

Page 1/4

Waste Management Federal Services Hanford, Inc.  
MSIN: S3-28  
Richland, WA 99352 Phone 373-7167



0051991

WSCF 0067-WSCF



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## ANALYTICAL LABORATORY REPORT

### ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing  $>$  or  $=$  1% asbestos fibers.\* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility, is accredited by the National Institute of Standards and Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP), to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by NIST nor does it apply to other analyses performed by this laboratory.

If there are questions concerning this report, please contact the approved signatory listed on the cover page of this report.

\* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Follow-up analysis by other techniques may be required.



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## ANALYTICAL LABORATORY REPORT

Attention: D Ayres/S Trent MSIN: H9-03

Group #: 99001181

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W99I002651	BOW2X5	The following are the results of this test- Bulk Asbestos Layer 1							
			Non-Asbestos	NF 100 %		dws1	07/21/99	07/21/99	07/26/99
		SAMPLE COMMENT--- 60% black fine grained solid							
W99I002651	BOW2X5	The following are the results of this test- Bulk Asbestos Layer 2							
			Chrysotile Asbestos	30-40 %		dws1	07/21/99	07/21/99	07/26/99
		SAMPLE COMMENT--- 40% black ter and fibrous backing associated with the above							

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The analyte was detected in the associated method blank.

J - Estimated value.

N - Identification is based on a mass spectral library search.

U - The analyte was analyzed for but not detected.

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Page 3/4



# WSCF

## ANALYTICAL COMMENT REPORT

Attention: D Ayres/S Trent MSIN: H9-03

Group #: 99001181

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 8/3/99 by MK Hamilton, IH Coordinator
				Please Note: Bulk asbestos analyses are currently covered
				by the WSCF AIHA accreditation, not by
				NIST/NVLAP as stated in the cover letter.
W99I002651	BOW2X5	LOGSAMP		Received by DW Shea & logged by MK Hamilton 7/21/99
				Cat III Rad sample reportedly from 100D Pipeline
		TESTDATA	Bulk Asbestos Layer 1	60% black fine grained solid
		TESTDATA	Bulk Asbestos Layer 2	40% black tar and fibrous backing associated with the above

Lab Areas: VALGROUP - Group Validation  
LOGSAMP - Login for Sample

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>					B99-004-073		Page <u>1</u> of <u>1</u>		
Collector D Bowers		Company Contact RB Kerkow		Telephone No. 509-531-0635		Project Coordinator TRENT, SJ		Price Code		Data Turnaround <b>2 Business Days</b>	
Project Designation 100 D Areas - Quick Turn		Sampling Location 100D Pipeline (116-DR-9b)		SAF No. B99-004							
Ice Chest No. <b>ERC 96-079</b>		Field Logbook No. EL-1339-5		Method of Shipment <b>GOVERNMENT VEHICLE</b>							
Shipped To Waste Samp. & Char. Fac.		Offsite Property No. <b>N/A</b>		Bill of Lading/Air Bill No. <b>N/A</b>							
				COA <b>R100DC 2F00</b>							

  

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>  Potentially asbestos containing material   <b>Special Handling and/or Storage</b>	<b>Preservation</b>	None									
	<b>Type of Container</b>	G/P or Zip Loc Bag									
	<b>No. of Container(s)</b>	1									
	<b>Volume</b>	1g									
		Asbestos									

  

<b>SAMPLE ANALYSIS</b>														
Sample No.	Matrix *	Sample Date	Sample Time											
BOW2X5 <b>W991002651</b>	<b>other solid soil 7-21-99</b>	<b>7-21-99</b>	<b>1315</b>	<b>X</b>										
		<b>verbal to client MWS 7/22/99</b>												

  

<b>CHAIN OF POSSESSION</b>		<b>Sign/Print Names</b>		<b>SPECIAL INSTRUCTIONS</b> COA:R100DC 2F00 <b>DB: 9082/108414</b>				<b>Matrix *</b>  Soil Water Vapor Other Solid Other Liquid	
Relinquished By	Date/Time	Received By	Date/Time						
<b>Doug Bowers</b>	<b>7-21-99 1405</b>	<b>D.W. SHEA</b>	<b>7/24/99 1405</b>						
Relinquished By	Date/Time	Received By	Date/Time						
Relinquished By	Date/Time	Received By	Date/Time						
Relinquished By	Date/Time	Received By	Date/Time						

  

<b>LABORATORY SECTION</b>	Received By <b>1099 received by MK Hamilton, received &amp; analyzed by DW Shea</b>	Title <b>DW Shea</b>	<b>REMAINING SAMPLE STORED AT WSCF ASBESTOS</b> <b>LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE</b>
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method	Disposed By	Date/Time